

Place of Birth: **Telavi**

Name: **NINO**

Surname: **ZHONZHOLADZE**

Date of Birth **29.07.1972**

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Education

1989-1994 Iv. Javakhishvili State University, Faculty of Physics, specialty - Radiophysics.

2002-2007 Researcher of M. Nodia Institute of Geophysics.

29.08.2008 I defended my dissertation on August 29, 2008. The title of my dissertation is: "Movement of charged particles of the solar wind in the polar cusp and transfer events". The defense was held at the session of the Dissertation Council of the Faculty of Exact and Natural Sciences of Iakob Gogebashvili Telavi State University and was awarded the academic degree of Doctor of Physics

Work Experience

1994-2024 Assistant Professor, Faculty of Agricultural, Natural Sciences and Technologies of Iakob Gogebashvili Telavi State University.

2006-2008 Physics Teacher at King Erekle Gymnasium of Telavi.

2008-2024 Physics Mentor Teacher at #9 Public School of Telavi

2014-2018 The Leading Physics Teacher at Telavi European School

Languages:

Georgian (native)

Russian Language (fluent)

German Language (average)

Technical skills: Windows, MS Office, Internet

Published Publications:

1. M. Chkhitunidze, N. Zhonzholadze. The Magnetic Boundary Layer of the Earth as an Energy-supplying Channel for the Processes inside the Magnetosphere. Journal of Georgian Geophysical Society, Issue B. Physics of Atmosphere, Ocean, and Plasma, vol.15, 2011-2012, pp.95-108
2. V. Kirtskhalia, Z. Kereselidze, N. Zhonzholadze, and M. Chkhitunidze. An Analytical Model of an Asymmetrical Temperature Field in the Polar and Auroral Ionosphere. Georgian International Journal Of Science and Technology, Volume 3, Issue 4, pp. 381-390. 2012
https://www.novapublishers.com/catalog/product_info.php?products_id=32804
3. Marina Chkhitunidze, I. Khvedelidze, Nino Zhonzholadze. Assessment of the WKB Method Error by the Gratton Kinematic Model for the Earth's Magnetic boundary layer Task. Journal of the Georgian Geophysical Society, 2013.
4. V. Kirtskalia, Z. Kereselidze, N. Zhonzholadze. To the Question of Stability of a Large-Scale Hydrodynamic Pattern of a Solar Wind Flow around the Magnetosphere. Georgian International Journal Of Science and Technology, Volume 3, Issue 4, pp. 391-404, 2012
https://www.novapublishers.com/catalog/product_info.php?products_id=32804
5. Zhonzholadze N.I. Modeling of the solar wind flow around earth's Magnetosphere in Kinematic Approximation Georgian Engineering News #2. c. 63-67.2010.
6. Z. Rostomashvili, K. Achuashvili, N. Zhonzholadze, E. Tsiklauri - Science and Society Development Fund "Intellect" - Georgia. III International Scientific Conference. Collection of scientific works. Topic: "Teaching relativity of motion"; p. 381-384. 17-19 October, 2014.
7. Research of processes of photo stimulated crystallization of nano dimensional layers of silicon on sapphire films" Z.V. Jibuti, S.A. Avsarrkisov, A.P. Bibilashvili, R.G. Gulyaev, N.D. Dolidze, Z.I. Kurshitashvili, N.I. Zhonzholadze, Nano Studies, 2014, 10. Pg. 77-82
8. K. Photova, N. Zhonzholadze. Radioactivity and its Negative Consequences, collection of works, Iakob Gogebashvili Telavi State University, 2016

9. .С.Чхитунидзе, ²Н.И.Жонжоладзе, ¹И.Б.Хведелидзе **Кинематическая модель неравномерного вращения жидкой среды. Proceedings of the Institute of Geophysics named after Mikheil Nodia, Vol. LXVII, 2017**

10.М.Svanidze, Y. Verbetsky, A.Iashvili, I.Iashvili, L. Kakabadze, N. Jonjoladze

“INVESTIGATION OF THE ARRIVALS’ DIRECTIONS DIFFERENCES FOR CONSECUTIVE EXTENSIVE AIR SHOWERS USING THE DATA TAKEN BY TEL GONIOMETER UNDER GELATICA NETWORK”

Peer-reviewed electronic scientific journal "Physics"| No.2(22) [2019.12.31] http://gesj.internet-academy.org/ge/ge/list_artic_ge.php?b_sec=phys&fbclid=IwAR0g-A8WVfXUz-S_lnt7dYf03m2g2emLC3Hl-HxQow2PGM_Fe

11. **И. Хведелидзе, М. Чхитунидзе, Н. Жонжоладзе „ МОДЕЛЬ ЛОКАЛЬНОГО АТМОСФЕРНОГО ВОЗМУЩЕНИЯ НИЖНЕЙ ЧАСТИ УЩЕЛЬЯ РЕКИ ВЕРЕ,,** Proceedings of Mikheil Nodia Institute of Geophysics, ISSN 1512-1135, Vol. LXX, 2019

http://openlibrary.ge/bitstream/123456789/8698/1/11_Tr_IG_70_2019.pdf?fbclid=IwAR0w4BeMMgPzDTj6jKWK28wALz6w_NeHjPXsx1-cV7Kl0pRgtIOdti-T7eI

12. D. Tedoradze, N. Zhonzholadze, M. Bardavelidze - "Organizing of students' independent work on physics laboratory courses", International Scientific Journal Intellect, ISSN 1512-0333. 1(63) 2019.

13. M. Bardavelidze, N. Zhonzholadze, D. Tedoradze, "Using video-computer material during physical experiments", periodical scientific journal Goni. ISSN 1512-066X. #7 2019.

14. N. Zhonzholadze, "Works of Givi Khutsishvili, Cosmic Ray Physics", International Scientific Journal Intellect, ISSN 1512-0333. 2(64) 2019.

15. T. Lachashvili, N. Zhonzholadze, "Compile a routing table using a ststic routing algoritm" The Peerian Jurnal editor@peerianjournal.com., ISSN (E): 2788-0303. Page 27-31.2021

16. M. Chkhitudze, I. Khvedelidze, N. Zhonzholadze, "ON THE MODELING OF THERMAL MECHANISM OF VORTEX GENERATION IN THE LOWER ATMOSPHER" International Scientific Conference "Natural Disasters in the 21st Century: Monitoring, Prevention, Mitigation" ISBN 978-9941-491-52-8. Page 56–59.2021.

17. T. Lachashvili, N. Zhonzholadze, "Determining the route to the remote subscriber using Tracert utility". Tesau, "Education, research, practice", works. ISSN 2449-2337; 9772449233004; UDK (Uak) 378.49479.221.2) (063); T-44. p. 99-103. N 47. 2022.

18. Z. Kereselidze, M. Lomouri, M. Chkhitunidze, N. Zhonzholadze. "Regarding the physiological effect of Tskaltsminda-Ureki magneto-electrical anomaly" JOURNAL OF THE GEORGIAN GEOPHYSICAL SOCIETY. ISSN 2667-9973 p-ISSN 1512-1127. Volume 25, No. 1 p. 52-61. Tbilisi 2022.

19. T. Lachashvili, N. Zhonzholadz, „VIRTUALIZATION AND MODELING TECHNOLOGIES IN COMPUTER SYSTEMS" International Scientific Journal ISJ Theoretical & Applied Science Philadelphia Soi: <http://s-o-i.org/1.1/TAS-07-123-4> Doi: <https://dx.doi.org/10.15863/TAS>. Philadelphia, USA; ISJ Theoretical & Applied Science; <http://T-Science.org07> (123), 17-19. 04.07.2023

▪ Readers

1. Reader "Dosimetry and Radiation Control" 2016.

2. Reader "Introduction to Geophysics" 2016

3. Reader "The Structure of the World". Reader. 2014 year.

4. Reader "Science 2 (I-IV Grade)" 2018.

5. Reader "Science 4 (grades V-VI)" 2018

6. Reader "Methodology of Teaching Natural Science 2 (astronomy, physics)

(I-IV Grades 2018)".

7. Reader "Methodology of Teaching Natural Science 2 (astronomy, physics)

(V-VI Grades 2018 year)".

Professional Qualification

1. 2012 - Training "Active teaching of students in natural science" "SALIS" Iliia State University;
2. August 2013 - "SALIS" final conference;
3. 2013 Participant of the "PROFILES" project of the European Union.
4. 2014 Training "INTEL Basic Training Course - Teaching with Projects", National Center for Professional Development of Teachers.
5. 2014 Training "Video as a learning resource", National Center for Professional Development of Teachers.
6. 2014 Conference "Information Technologies for Raising the Quality of Teaching and Learning", National Center for Professional Development of Teachers and European School.
7. 2014 International conference "Nanotechnologies - NANO 2014", Speaker

8. 2014 Error estimation of the Wetzell-Kramer-Brillouin (WKB) method using Graton's kinematic model for the Earth's magnetic boundary layer problem, 5th Annual International Conference of the Union of Mathematicians, Speaker.
9. 2014, Sukhumi State University. The speaker of the scientific conference of the academic staff - "The speed of sound and its connection with the properties of the environment."
10. 2014, Iliia State University. Workshop "Active teaching of phonetics and optics"
11. 2015 Participant of the seminar within the "PROFILES" project of the 7th framework program of the European Union project.
12. 2014. Participant of the III Batumi International Scientific Conference - "Teaching Relativity of Motion"
13. 2015. VI Annual International Conference of the Union of Mathematicians of Georgia - "Earth's Magnetic Boundary Layer as an Energy Supply Channel for Intramagnetospheric Processes." Batumi, July 12-16, 2015. Speaker
14. **2015. The 73rd Scientific Conference of Professors, Teachers and Doctoral Students**, "Adoption of the universal Hamiltonian for quantum mechanical research of nonlinear resonance" May 27-28, 2015, Telavi.
15. **2016.XXVII International Conference. "Problems of Decision-making under Conditions of Uncertainty"**. Tbilisi-Batumi. Georgia on May 23-27, 2016, Speaker
16. **I International Scientific Conference "Education, Research, Practice"** - "Compilation of heat balance equation in the case of different aggregate states"-July 1-2, 2016. Telavi. Speaker
17. **International scientific conference** - "Educational sciences, teacher education" "Obtaining the formula for the sum of the members of an infinitely decreasing geometric progression based on the discussion of the physics problem" October 1-3, Tbilisi 2016.
18. **The 74th scientific conference of professors, teachers and doctoral students** -"Earth's magnetic field and geomagnetic pulsars". June 9, 2016 Telavi.
19. **The 74th scientific conference of professors and doctoral students** -"Using Taylor's row in work calculation" June 9, 2016, Telavi.
20. **International conference "Active problems in modern natural sciences"** „Применение ряда Тейлора для вычисления координаты и некоторых физических величин.” May 4-5, 2017 Ganja State University (Azerbaijan)

21. **The 75th scientific conference of professors and doctoral students** "Resonance frequencies of the human electrocardiograph and the role of the possible impact of geomagnetic pulsations" June 5, 2017, Telavi.
22. **The 74th scientific conference of professors and doctoral students** - "Multidimensional spaces in statistical physics" June 5, 2017, Telavi.
23. **IV International Scientific Conference "Intercultural Dialogues"**, "Influence of microelements on formations of iodine deficiency disease", October 27-29, 2017, Telavi. Speaker.
24. **II International Scientific Conference "Education, Research, Practice"**, "Active Teaching in Physics", October 28-29, 2018, Telavi. Speaker.
25. **V International Scientific Conference. "Power engineering: regional problems and development prospects"**. "Solar energy - energy of the future", October 25-26, 2018. Kutaisi. Speaker.
26. . **INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS.** ., The Kinematic Model of Nonuniform Rotation of Liquid Medium.,). JULY 23-27 2018, Karadeniz Technical University, Prof.
<https://mail.google.com/mail/u/1/#search/marina/FMfcgxwChJbtfKchVPnCNIGsxTsHWPTth?projector=1&messagePartId=0.1>
27. **IX International Conference of the Georgian Mathematical Union.** ., Hydrodynamic Model of Formation of Karst Voids.,, September 3-7, 2018, Batumi, Georgia.
<https://mail.google.com/mail/u/1/#search/marina/FMfcgxwChJbtfKchVPnCNIGsxTsHWPTth?projector=1&messagePartId=0.2>
28. **X Annual International Conference of the Union of Mechanics of Georgia.** "Determining the transfer function of the RLC circuit using the Laplacian function method", September 26-28, 2019. Telvi. Speaker.
29. **The 77th Scientific Conference of Professors-teachers and Doctoral Students**, "Some methods of solving problems of the theory of relativity", June 6, 2019. Telavi. speaker
30. **V International Scientific Conference "Intercultural Dialogues"**, Angular distribution of the direction of arrival of large atmospheric currents, October 25-27, 2019. Telavi. speaker.
31. **Science for Success - Scientific Conference**, "Waste Management"; Forests and Biodiversity" September 27, 2019. Telavi.
32. **III International Scientific Conference - "Education, Research, Practice"**, How the use of digital technologies changes the quality of physics teaching, October 2-3, 202, Telavi. Speaker

33. **International Scientific Conference - Natural Disasters in the 21st Century: "Monitoring, Prevention, Mitigation"**. "Regarding the Modeling of the Thermal Mechanism of Whirlwind Generation in the Lower Atmosphere". December 20-22, 2021. Tbilisi. Speaker
34. **I International Scientific Conference "Education, Technology and Innovation" (ICETI 2021)** "Benefits of CK12 platform for the Georgian educational space". 2021.12.15-Tbilisi. European University. Speaker.
35. **IV International Scientific Conference "Education, Research, Practice"**, "Determining the route to the remote subscriber using Tracert utility." October 7, 2022. Telavi. Speaker
35. **Training within the framework of the ERASMUS+PRINTEL project** - active learning in an inverse classroom, February 15-22, 2019 year.
36. **Training within the framework of the ERASMUS+PRINTEL project** – “Active Learning. Information and communication technology-enhanced learning: mobile phone learning and games”, March 16-21, 2019 year.
37. **Training-** Active learning **within the ERASMUS+PRINTEL project:** collaborative learning enhanced by technologies, March 22-28, 2019.
38. **Training** "Use of practical research methods in higher education", October 25-27, 2019.
39. **Training** "Implantation of research processes in MOODLE-LMS environment", September 18, 2019.
40. **Training** "Pedagogue vision of the future", October 26, 2019.
41. **Master class** "Change in educational audience... virtual aspects of teaching-learning and research", September 26, 2018.
42. **Internship** at CERN Atomic Research Laboratory in Geneva, Switzerland. From September 11 to September 17, 2016.